

CLAIMS

Please amend the Claims as indicated below:

What is claimed is:

1. (Currently Amended) A text-entry system based on trigger sequences comprising

1) a plurality of keys,

2) a plurality of printable symbols, ~~3) said plurality of printable symbols comprising a plurality of symbols in a set consisting of pre-conversion symbols, post-conversion symbols and non-conversion symbols,~~

such that at least one of said keys is assigned more than one of said pre-conversion symbols and

such that at least one fixed sequence of [[said]] keystrokes corresponds to more than one pre-conversion symbol or sequence of [[said]] pre-conversion symbols,

each of said post-conversion symbols being set in a correspondence to a pre-conversion symbol or sequence of [[said]] pre-conversion symbols, ~~said corresponding sequence of said pre-conversion symbols comprising at least one of said pre-conversion symbols,~~

[[4)]] 3) a plurality of symbol-input-end symbols each of which can be input by a keystroke on a key [[keys]] having a printable symbol assigned to it [[them]],

[[5)]] 4) a display to display said plurality of printable symbols,

[[6)]] 5) a first mechanism to display said plurality of printable symbols in response to keystrokes, and

[[7)]] 6) a second mechanism to recognize, upon input of a symbol-input-end symbol, elements of a set of trigger sequences of [[said]] keystrokes and thereby trigger conversion of a said

pre-conversion symbol or pre-conversion sequence ~~comprising at least one said pre-conversion symbol~~ displayed on said display to a post-conversion sequence comprising a post-conversion symbol,

said elements of a set of trigger sequences comprising classes of ~~[[said]]~~ trigger sequences, said classes comprising a first class of ~~[[said]]~~ trigger sequences,

said trigger sequences in said first class of ~~[[said]]~~ trigger sequences characterized in that they comprise a subsequence of ~~[[said]]~~ keystrokes,

said subsequence comprising at least two ~~of said~~ keystrokes such that a first keystroke of said subsequence of ~~[[said]]~~ keystrokes causes said first mechanism to display a first ~~[[said]]~~ pre-conversion symbol, and where each subsequent keystroke ~~one of said keystrokes~~ on a key having a printable symbol assigned to it generates a ~~[[said]]~~ symbol-input-end symbol which applies to an immediately previously displayed ~~[[said]]~~ printable symbol to cause input of said immediately previously displayed ~~[[said]]~~ printable symbol and additionally causes display of a further ~~[[said]]~~ printable symbol ~~assigned to said key~~,

where a last keystroke of said subsequent subsequence ~~said of~~ keystrokes generates a last ~~[[said]]~~ symbol-input-end symbol applying to a last ~~[[said]]~~ immediately previously displayed ~~[[said]]~~ printable symbol, and additionally displays a last further printable symbol assigned to the key of said last keystroke,

said last ~~[[said]]~~ further printable symbol characterized as displayed and not converted when said last ~~[[said]]~~ immediately previously displayed ~~[[said]]~~ printable symbol is converted, alone or as the last of a sequence of printable symbols, into a post-conversion symbol, when said last immediately previously displayed printable symbol is a pre-conversion symbol, said last ~~[[of said]]~~ keystroke of said subsequent subsequence of

keystrokes ~~keystroke~~ completing said trigger sequence, so that it is recognized by said second mechanism, permitting conversion of said last immediately previously displayed printable symbol, alone or as the last of a sequence of printable symbols, to a post-conversion symbol when said last immediately previously displayed printable symbol is a pre-conversion symbol before any further keystroke is made and while also causing display of [[a said]] the printable symbol assigned to the key of said last keystroke for possible later inclusion in a subsequent sequence of pre-conversion symbols corresponding to a subsequent post-conversion symbol.

2. (Withdrawn) The text-entry system of claim 1 further characterized in that 1) said pre-conversion symbols comprise tone marks and symbols selected from a set of Latin symbols and Bopomofo symbols, 2) said post-conversion symbols comprise Hanzi, and 3) elements of said first class of said trigger sequences are characterized in that said first subsequence said keystroke causes said first mechanism to display one of said tone marks and one of said subsequent subsequence said keystrokes generates one of said symbol-input-end symbols, said generated said symbol-input-end symbol applying to said displayed said tone mark causing it to be input.

3. (Currently Amended) The text-entry system of claim 1 further characterized in that 1) said pre-conversion symbols comprise cHiragana, 2) said post-conversion symbols comprise Kanji, 3) said non-conversion symbols comprise Hiragana, and 4), said classes comprise a second class, elements of said second class being characterized in that they comprise a first [[said]] keystroke which causes said first mechanism to display a first [[said]] cHiragana, and a second [[said]] keystroke which generates a first [[said]] symbol-input-end symbol, said first said symbol-input-

end-symbol applying to said displayed first ~~[[said]]~~ cHiragana causing it to be input, where said second ~~[[said]]~~ keystroke is on a cHiragana-free ~~[[said]]~~ key, characterized in that it has not been assigned any ~~of said~~ cHiragana, and elements of said first class are further characterized in that said first keystroke or subsequence of keystrokes ~~said keystroke~~ causes said first mechanism to display a first subsequence of ~~[[said]]~~ cHiragana, and a first subsequent keystroke or subsequence of said keystroke keystrokes generates ~~one of said~~ a symbol-input-end symbol ~~symbols~~, said symbol-input-end-symbol generated by said first subsequent keystroke or subsequence of said keystroke keystrokes applying to said first subsequence of ~~[[said]]~~ cHiragana causing it to be input, where said first subsequent keystroke or subsequence of said keystroke keystrokes also causes one of said Hiragana to be displayed by said first mechanism and where a second subsequent keystroke or subsequence of said keystroke keystrokes ~~which~~ generates a second subsequence ~~[[said]]~~ symbol-input-end symbol, said second subsequence ~~[[said]]~~ symbol-input-end symbol applying to said displayed ~~[[said]]~~ Hiragana causing it to be input.

4. (Withdrawn) The text-entry system of claim 1 further characterized in that 1) said pre-conversion symbols comprise cLatin symbols, 2) said post-conversion symbols comprise of Kanji, 3) said non-conversion symbols are selected from a set consisting of Latin symbols and Hiragana and 4) said classes comprising a second class, elements of said second class characterized in that they contain a first said keystroke which causes said first mechanism to display a first said cLatin symbol, and a second said keystroke which generates a first said symbol-input-end symbol, said first said symbol-input-end-symbol applying to said first said cLatin symbol causing it to be input, where said second said keystroke is on a cLatin-free said

key, characterized in that it has not been assigned any of said cLatin symbols, and elements of said first class are further characterized in that said first subsequence said keystroke causes said first mechanism to display a first subsequence said cLatin symbol, and a first subsequent subsequence said keystroke generates a first subsequence said symbol-input-end symbol, said first subsequence said symbol-input-end-symbol applying to said first subsequence said cLatin symbol causing it to be input, where said first subsequent subsequence said keystroke also causes one of said non-conversion symbols to be displayed by said first mechanism and a second subsequent subsequence said keystroke e which generates a second said symbol-input-end symbol which applies to said displayed non-conversion symbol causing it to be input.

5. (Withdrawn) The text-entry system of claim 1 further characterized in that 1) said pre-conversion symbols comprise Latin symbols, 2) said post-conversion symbols comprise Kanji, 3) said non-conversion symbols comprise Hiragana and 4) said classes comprise a second class, elements of said second class characterized as containing a first said keystroke which causes said first mechanism to display a first said Latin symbol, and a second said keystroke which generates a first said symbol-input-end symbol, said first said symbol-input-end-symbol applying to said first said Latin symbol causing it to be input, where said second said keystroke is on a Latin-symbol-free said key, said Latin-symbol-free said key characterized in that it has not been assigned any of said Latin symbols, and elements of said first class are further characterized in that said first subsequence said keystroke causes said first mechanism to display a first subsequence said Latin symbol, and a first subsequent subsequence said keystroke generates a first subsequence said symbol-input-end symbol, said first subsequence said symbol-input-end-symbol applying to said displayed first subsequence said Latin symbol causing it to be

input, where said first subsequent subsequence said keystroke also causes a first said non-conversion symbol to be displayed by said first mechanism, and a second subsequent subsequence said keystroke which generates a second subsequence said symbol-input-end symbol, said second subsequence said symbol-input-end symbol applying to said first said non-conversion symbol causing it to be input.

6. (Withdrawn) The text-entry system of claim 1 further characterized in that 1) said pre-conversion symbols comprise cJamo, 2) said post-conversion symbols comprise Hanja, 3) said non-conversion symbols comprise Jamo, and 4) said classes comprise a second class, elements of said second class characterized in that they contain a first said keystroke which causes said first mechanism to display a first said cJamo, and a second said keystroke which generates a first said symbol-input-end symbol, said first said symbol-input-end-symbol applying to said first said cJamo causing it to be input, where said second said keystroke is on a cJamo-free said key, said cJamo-free said key characterized in that it has not been assigned any said cJamo, and said trigger sequences in said first class are further characterized in that said first subsequence said keystroke causes said first mechanism to display a first subsequence said cJamo, and a first subsequent subsequence said keystroke generates a first subsequence said symbol-input-end symbol said first subsequence said symbol-input-end-symbol applying to said first subsequence said cJamo causing it to be input, where said first subsequent subsequence said keystroke also causes a first subsequence said non-conversion symbol to be displayed and a second subsequent subsequence said keystroke which generates a second subsequence said symbol-input-end symbol, said second subsequence said symbol-input-end symbol applying to said first subsequence said non-conversion symbol causing it to be input.

7. (Previously Presented) The text-entry system of claim 1 further comprising a third mechanism to convert a sequence of ~~[[said]]~~ pre-conversion symbols to ~~[[said]]~~ a post-conversion symbol ~~symbols~~ upon recognition of said trigger sequences by said second mechanism.

8. (Previously Presented) The text-entry system of claim 7 further characterized in that said third mechanism is physically remote from said first mechanism.

9. (Previously Presented) The text-entry system of claim 7 further characterized in that said third mechanism performs said conversion based on a context comprising other input symbols.

10. (Previously Presented) The text-entry system of claim 1 further comprising a predictive text mechanism operating to select said pre-conversion symbols for display based on a context comprising other input symbols.

11. (Currently Amended) The text-entry system of claim 1 further comprising at least one Next key for incrementing symbols in an ordered list containing more than one element, said Next key characterized in that a ~~[[said]]~~ keystroke on said Next key does not generate a ~~[[said]]~~ symbol-input-end symbol.

12. (Withdrawn) The text-entry system of claim 1 further comprising a multi-tap mechanism for incrementing symbols in an ordered list containing more than one element, said multi-tap

mechanism characterized in that a said incrementing symbols in an ordered list does not generate any said symbol-input-end symbols.

13. (Withdrawn) The text-entry system of claim 2 further characterized in that each time one of said tone marks is displayed, it is only displayed after a plurality of said Latin symbols have been displayed but not input.

14. (Currently Amended) The text-entry system of claim 1 further comprising a first Next [[said]] key applying to a plurality of said pre-conversion symbols assigned to a ~~same said~~ key such that a [[said]] keystroke on said first Next [[said]] key advances ~~said same key assigned~~ said pre-conversion symbols in an order, and a second Next key applying to a plurality of [[said]] non-conversion symbols assigned to a ~~same said~~ key such that a [[said]] keystroke on said second Next said key advances ~~said same key assigned~~ said non-conversion symbols in an order, said first Next key characterized in that a [[said]] keystroke on said first Next key does not generate a [[said]] symbol-input-end symbol, and said second Next key characterized in that a [[said]] keystroke on said second Next key does not generate a [[said]] symbol-input-end symbol.

15. (Previously Presented) The text-entry system of claim 3 further characterized in that a plurality of said pre-conversion symbols are assigned to said keys in a substantially Iroha ordering.

16. (Currently Amended) A method for constructing trigger sequences for a text-entry system comprising the steps of 1) selecting a set of printable symbols from a set consisting of pre-conversion symbols, post-conversion symbols, and non-conversion symbols, 2) assigning said pre-conversion symbols to keys such that at least one ~~[[said]]~~ key is assigned more than one ~~[[said]]~~ pre-conversion symbol 3) selecting a text-entry mechanism which enters text in response to keystrokes, 4) selecting a set of sample text sequences 4) for each member of said set of selected sample text sequences determining a corresponding ~~[[said]]~~ keystroke sequence which causes said text-entry system to enter a ~~[[said]]~~ selected sample text sequence, said corresponding ~~[[said]]~~ keystroke characterized in that it does not contain a ~~[[said]]~~ keystroke on a conversion said key, said conversion ~~[[said]]~~ key characterized as converting a subset of displayed ~~[[said]]~~ pre-conversion symbols to a ~~subset of said~~ post-conversion symbol ~~symbols~~, without additionally causing display of further printable symbols where said further printable symbols are selected from the set consisting of ~~[[said]]~~ pre-conversion symbols and ~~[[said]]~~ non-conversion symbols, 5) for each said corresponding said keystroke sequence, and for each ~~[[said]]~~ pre-conversion symbol generated by each ~~[[said]]~~ corresponding ~~[[said]]~~ keystroke sequence, finding a subsequence of ~~[[said]]~~ keystrokes such that said subsequence comprises at least two ~~of said~~ keystrokes such that a first keystroke of said subsequence of keystrokes causes display of a first ~~[[said]]~~ pre-conversion symbol, and subsequent ~~[[said]]~~ keystrokes in said subsequence are characterized in that they generate a symbol-input-end symbol, where said generated ~~[[said]]~~ symbol-input-end symbol applies to an immediately previously displayed ~~[[said]]~~ printable symbol to cause input of said immediately previously displayed said printable symbol and where each of said subsequent ~~[[said]]~~ keystrokes additionally causes display of a ~~[[said]]~~ further ~~[[said]]~~ printable symbol, said further ~~[[said]]~~ printable symbol being either a

[[said]] pre-conversion symbol or a [[said]] non-conversion symbol, where a last of said subsequent [[said]] keystrokes of said subsequence completes said trigger sequence, and thereby triggers conversion.

17. (Previously Presented) The text-entry system of claim 1 further comprising an assignment of cHiragana to said plurality of keys in a substantially Iroha ordering.

18. (Previously Presented) The text-entry system of claim 1 further comprising a word-based predictive mechanism.

19. (Previously Presented) The text-entry system of claim 18 further comprising a word-completion mechanism.

20. (Withdrawn) The text-entry system of claim 2 further characterized in that said tone mark appears in said order after any of said Latin symbols in said order.

21. (Withdrawn) A text-entry system based on trigger sequences comprising

- 1) a plurality of keys,
- 2) a plurality of pre-conversion symbols,
- 3) a plurality of post-conversion symbols, each of said post-conversion symbols set in a correspondence to a sequence of said pre-conversion symbols,
- 4) a plurality of symbol-input-end symbols,
- 5) a display to display symbols,

6) a first mechanism to display said pre-conversion symbols in response to keystrokes, and
7) a second mechanism to recognize trigger sequences and thereby trigger conversion of a pre-conversion sequence comprising at least one said pre-conversion symbol displayed on said display by said first mechanism to a plurality of post-conversion symbols, said trigger sequences comprising a subsequence of said keystrokes, said subsequence comprising at least two of said keystrokes such that

the first of said subsequence said keystrokes causes said first mechanism to display a first said pre-conversion symbol,

the second of said keystroke in said subsequence generates one of said symbol-input-end symbols where said generated symbol-input-end symbol applies to said displayed pre-conversion symbol to cause input of said displayed pre-conversion symbol and

where said second keystroke does not additionally display any of said pre-conversion symbols which follow said one pre-conversion symbol in any sequence of said pre-conversion symbols which corresponds to one of said post-conversion symbols,

whereby following generation one of said symbol-input-end symbols and upon recognition of one of said trigger sequences, conversion of a plurality of said displayed pre-conversion symbols to one of said plurality of said post-conversion symbols is effected without the need for a keystroke on a dedicated convert key and in instances where said second keystroke is on a key having at least one pre-conversion symbol assigned to it, also immediately causing display of a pre-conversion symbol assigned to said key for later possible input and inclusion in a subsequent sequence of pre-conversion symbols.

22. (Withdrawn) A text-entry system based on trigger sequences comprising

1) a plurality of keys,

2) a plurality of printable symbols, said plurality of printable symbols comprising pre-conversion symbols, post-conversion symbols and non-conversion symbols, said post-conversion symbols being distinct from said pre-conversion symbols,

at least one of said keys being assigned more than one of said pre-conversion symbols such that at least one fixed sequence of said keystrokes corresponds to more than one sequence of said pre-conversion symbols,

each of said post-conversion symbols corresponding to a sequence of at least one of said pre-conversion symbols,

3) a display to display printable symbols,

4) a first mechanism to display said printable symbols in response to keystrokes, and

5) a second mechanism to recognize a plurality of trigger sequences of said keystrokes, a first plurality of which trigger sequences triggering conversion of a pre-conversion sequence of at least one of said pre-conversion symbols displayed on said display to at least one said post-conversion symbol upon a keystroke generating a symbol-input-end symbol applicable to a previously displayed pre-conversion symbol of said pre-conversion sequence,

whereby said keystroke generating said symbol-input-end symbol permits recognition of the completion of one of said first plurality of trigger sequences without a further keystroke dedicated to causing conversion of any of said displayed pre-conversion symbols in said pre-conversion sequence to a post-conversion symbol and while also causing display of said pre-conversion symbol corresponding to said keystroke generating said symbol-input-end symbol.

23. (Withdrawn) The text-entry system of claim 22, elements of said first plurality characterized as comprising at least a first and an n th keystroke, $n > 1$, where said first keystroke causes said first mechanism to display a first pre-conversion symbol, and where each following m th keystroke, $1 \leq m \leq n$, generates a said symbol-input-end symbol applying to a $(m-1)$ st pre-conversion symbol causing it to be input, and where each said m th keystroke additionally causes display of a further pre-conversion symbol and where said n th keystroke generates a said symbol-input-end symbol applying to a $(n-1)$ st displayed pre-conversion symbol, and displays an n th said pre-conversion symbol, said n th pre-conversion symbol characterized as displayed and not converted upon said n th keystroke, said n th keystroke thus being said keystroke permitting recognition of completion of said trigger sequence, so that it is recognized by said second mechanism, permitting conversion before any further keystroke is made.

24. (Withdrawn) The text-entry system of claim 22, wherein each of the trigger sequences comprises a subsequence of at least two keystrokes such that the first of said keystrokes in the subsequence causes the first mechanism to display at least one pre-conversion symbol, and the second keystroke in the subsequence generates at least one symbol-input-end symbol, where the generated symbol-input-end symbol applies to at least one pre-conversion symbol displayed by the first mechanism in response to the first keystroke of the trigger sequence whereby conversion of a plurality of pre-conversion symbols to a plurality of post-conversion symbols is effected without the need for a keystroke on a dedicated convert key.

25. (New) A text-entry system based on trigger sequences comprising:

1) a plurality of keys,

2) a plurality of pre-conversion symbols,
3) a plurality of post-conversion symbols,
4) a plurality of symbol-input-end symbols,
5) a display to display printable ones of said symbols,
6) a first mechanism to display said pre-conversion symbols in response to keystrokes, and
7) a second mechanism to recognize trigger sequences and thereby trigger conversion of a plurality of pre-conversion symbols displayed by the first mechanism to a plurality of the post-conversion symbols, the trigger sequences comprising a subsequence of keystrokes, the subsequence comprising at least two of keystrokes such that the first of the keystrokes in the subsequence causes the first mechanism to display at least one pre-conversion symbol, and the second keystroke in the subsequence generates at least one symbol-input-end symbol, where the generated symbol-input-end symbol applies to at least one pre-conversion symbol displayed by the first mechanism in response to the first keystroke of the trigger sequence to immediately cause conversion of a plurality of pre-conversion symbols to a plurality of post-conversion symbols is effected without the need for a keystroke on a dedicated convert key and in instances where said second keystroke is on a key having a pre-conversion symbol assigned to it, also immediately causing display of a pre-conversion symbol assigned to said key for later possible input and inclusion in a subsequent sequence of pre-conversion symbols.